

SLink  
Cable

7/8"R PE

**SL 078R PE**



This product used for mobile network and telecommunication equipment

**Material and dimensions**

Inner conductor	Copper tube	Ø 9.0 mm
Dielectric	Foam PE	Ø 22.4 mm
Outer conductor	Corrugated copper(Annularly)	Ø 24.9 mm
Jacket	PE, Black, UV resistant, Halogen free	Ø 27.5 mm
Ink marking: metric length	RosenbergerSLink™_SL 078R_PE_50Ω_---_(DD+MM+SS+YY+NNNNN)_---_XXXXm	

**Documents**

UV resistance	GB/T 2423.24-1995; EN 50289-4-17, Method A
---------------	--

**Electrical Specification**

Impedance	50 ± 1 Ω
Relative Velocity of Propagation	88%
Capacitance	76 pF/m
Inductance	0.19 µH/m
Maximum Operating Frequency	5.0 GHz
Cut-off Frequency	5.2 GHz
Peak Power Rating	91 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	10000V
Jacket Spark Test Voltage	8000 Vrms
Inner Conductor DC-resistance	≤ 1.48 Ω/km
Outer Conductor DC-resistance	≤ 1.45 Ω/km

**Environmental Specification**

Installation Temperature	-25°C to +60°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-70°C to +85°C
RoHS	compliant

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF\_35/05.10/6.0

SLink  
Cable

7/8"R PE

**SL 078R PE**

**Mechanical Specification**

Cable weight	400 kg/km
Tensile strength	1450 N
Min. bending radius (single)	120 mm
Min. bending radius (repeated)	250 mm
Number of bends, minimum (typical)	15 (50)
Bending moment	18 Nm
Flat plate crush strength	14 N/mm
Recommended hanger spacing	1.0 m

**Standard Conditions**

Attenuation, Ambient Temperature	20°C
Average Power, Ambient Temperature	40°C
Average Power, Inner Conductor Temperature	100°C

**Return Loss**

Return loss(Band A)	≤ -26dB 800 to 1000MHz
Return loss(Band B)	≤ -24dB 1700 to 1900MHz
Return loss(Band C)	≤ -24dB 1900 to 2200MHz
Return loss(Band D)	≤ -24dB 2200 to 2500MHz
Return loss(Band E)	≤ -21dB 2500 to 3000MHz

**Attenuation**

Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	1.17	9.17
200	1.69	6.27
300	2.11	4.51
400	2.48	3.97
450	2.64	3.73
800	3.63	2.48
900	3.86	2.34
1000	4.12	2.19
1800	5.75	1.73
2000	6.11	1.63
2200	6.46	1.40
2500	6.95	1.33
2700	7.28	1.25
3000	7.75	1.16

Maximum attenuation value shall be 105% of the nominal attenuation value  
Other frequencies on request

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Check	Approved	Date	Rev.	Engineering change number	Name	Date
Feifei	13/12/11	James	heanyang	27/08/15	f	15-1122	huanghuan	27/08/15

Rosenberger Hochfrequenztechnik GmbH & Co. KG, Germany  
Tel.: +49 8684 18-0 Fax: +49 8684 18-499  
www.rosenberger.de email: info@rosenberger.de

Rosenberger Asia Pacific Electronic Co., Ltd., China  
Tel.: +86 10 80481995 Fax: +86 10 80497052  
www.rosenbergerap.com  
email: info@rosenbergerap.com